

BOOK NOTICES

DOUGLAS J. FUTUYMA, H. BRADLEY SHAFFER, AND DANIEL SIMBERLOFF (Eds.). 2006. **Annual Review of Ecology, Evolution, and Systematics, Vol. 37, 2006.** (ISBN 0-8243-1437-9, hbk.). Annual Reviews, 4139 El Camino Way, PO Box 10139, Palo Alto, CA 94303-0139, U.S.A. (**Orders:** www.annualreviews.org, service@annualreviews.org, 650-493-4400, 650-424-0910 or 650-855-9815 fax, 1-800-523-8635). \$80.00, 682 pp., color figures, 7½" × 9½".

Collection of new reviews in easy-reading format, covering a wide array of topics. Abstracts and author information are free at <<http://arjournals.annualreviews.org>> and full text is available with subscription.

Contents.—1) Birth-death models in macroevolution. 2) The posterior and the prior in Bayesian phylogenetics. 3) Unifying and testing models of sexual selection. 4) Genetic polymorphism in heterogeneous environments: the age of genomics. 5) Ecological effects of invasive arthropod generalist predators. 6) The evolution of genetic architecture. 7) The major histocompatibility complex, sexual selection, and mate choice. 8) Some evolutionary consequences of being a tree. 9) Late Quaternary extinctions: state of the debate. 10) Innate immunity, environmental drivers, and disease ecology of marine and freshwater invertebrates. 11) Experimental methods for measuring gene interactions. 12) Corridors for conservation: integrating pattern and process. 13) The population biology of large brown seaweeds: ecological consequences of multiphasic life histories in dynamic coastal environments. 14) Living on the edge of two changing worlds: forecasting the responses of rocky intertidal ecosystems to climate change. 15) Has vicariance or dispersal been the predominant biogeographic force in Madagascar? 16) Limits to the adaptive potential of small populations. 17) Resource exchange in the rhizosphere: molecular tools and the microbial perspective. 18) The role of hybridization in the evolution of reef corals. 19) The new bioinformatics: integrating ecological data from the gene to the biosphere. 20) Incorporating molecular evolution into phylogenetic analysis, and a new compilation of conserved polymerase chain reaction primers for animal mitochondrial DNA. 21) The developmental, physiological, neural, and genetical causes and consequences of frequency-dependent selection in the wild. 22) Carbon-nitrogen interactions in terrestrial ecosystems in response to rising atmospheric carbon dioxide. 23) Ecological and evolutionary responses to recent climate change.—Guy Nesom, Botanical Research Institute of Texas, 509 Pecan Street, Fort Worth, TX 76102-4060, U.S.A.

WINSOME SHEPHERD. 2000. **Wellington's Heritage: Plants, Gardens, and Landscape.** (ISBN 0-909010-73-0, pbk.). Te Papa Press, Museum of New Zealand Te Papa Tongarewa, Cable Street, PO Box 467, Wellington, New Zealand. (**Orders:** www.tepapa.govt.nz/TePapa/English/TePapaPress, +64 (0)4 381-7470, +64 (0)4 381-7280 fax). ~\$34.29 (\$49.99 NZD), 256 pp., color photos and illustrations, b/w photos, 8¼" × 11¾".

"This book tells the story of the Wellington [New Zealand] landscape and its private and public gardens, from colonial times to the present. It looks in detail at key plantsmen and gardeners in the nineteenth century in Wellington and the Hutt Valley, gives a history of gardens of especial interest, and describes the development of the Botanic Gardens and the Town Belt, as well as other parks. Wellington's distinctive wildflowers are also well illustrated." The author notes that "the book's origins go back to 1979 when [he] was asked by the New Zealand Historic Places Trust to research plant introductions to New Zealand after the Missionary period."

It is an amazing chronicle of the evolution of the botanical landscape of this beautiful city, its "eco-history." Paintings, maps, and hundreds of photos of structures and associated landscape provide documentation of such detail and care that this account surely is a strong academic contribution. But the text is fascinating and non-technical and many interested in similar aspects of their own city, in whatever part of the world, will be interested to have this book.—Guy Nesom, Botanical Research Institute of Texas, 509 Pecan Street, Fort Worth, TX 76102-4060, U.S.A.

JAMES I.L. MORISON AND MICHAEL D. MORECROFT (Eds.). 2006. **Plant Growth and Climate Change.** (ISBN 978-1-4051-3192-6, hbk.). Blackwell Publishing, 2121 State Avenue, Ames, IA 50014-8300, U.S.A. (**Orders:** www.blackwellpublishing.com, 515-292-0140, 515-292-3348 fax, 1-800-862-6657). \$199.99, 232 pp., illustrations, 6¼" × 9½".

The book examines the major aspects of how climate change affects plants, focusing on atmospheric CO₂, temperature, water availability and the interactions between these factors. Topics are nicely organized and cover the field with technical but easily readable discussions. Plenty of good illustrations and charts. "It is directed at advanced-level university students, researchers and professionals across the range of plant science disciplines, including plant physiology, plant ecology and crop science."

Contents.—1) Recent and future climate change and its implications for plant growth; 2) Plant responses to rising atmospheric carbon dioxide; 3) The significance of temperature in plant life; 4) Temperature and plant development: phenology and seasonality; 5) Responses of plant growth and functioning to changes in water supply in a changing climate; 6) Water availability and productivity; 7) Effects of temperature and precipitation changes on plant communities; 8) Issues in modelling plant ecosystem responses to elevated CO₂: interactions with soil nitrogen; 9) Predicting the effect of climate change on global plant productivity and the carbon cycle; References.—Guy Nesom, Botanical Research Institute of Texas, 509 Pecan Street, Fort Worth, TX 76102-4060, U.S.A.